Docket No.

203512US77

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

William M. CANFIELD

SERIAL NO:

10/023,889

FILED:

December 21, 2001

FOR:

METHODS OF PRODUCING HIGH MANNOSE GLYCOPROTEINS IN COMPLEX CARBOHYDRA

CELLS

INFORMATION DISCLOSURE/RELATED CASE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

SIR

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application.
 A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,

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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY DOCKET NO. 203512US77		SERIAL NO. 10/023,889				
LIST OF	REFE	RENCES CITED BY APPL		APPLICANT William	M. CANI	FIELD				
		FEB 2 1	3005 A	FILING DATE December 21, 2001		GROUP				
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EXAMINER INITIAL		DOCUMENT TRA	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE			
	AA	6,118,045	09/12/045	REUSER ET AL						
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	AC	5,932,211	08/03/99	WILSON ET AL						
	AD	5,929,036	07/27/99	McEVER						
	AE	5,928,928	07/27/99	AERTS						
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	AG	5,919,690	07/06/99	KNAP ET AL						
	AH	5,917,122	06/29,99	BYRNE						
 	Al	5,916,911	06/29/99	SHAYMAN EET AL	 					
ļ	AJ	5,916,870	06/29/99	LEE ET AL	 					
 	AK	5,914,231	06/22/99	HENNINK ET AL	 	 				
}	AL	5,912,146	06/15/99	NISHIMURA ET AL	 	ļ	 			
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		OTHER REF	ERENCES (Including Author, Title, Date, Pertinen	t Pages, e	tc.)				
	AW			A POTENT INHIBITOR OF THE GLYC y, Vol. 265, No. 26, Issue of September						
	АХ	SLY, "The Missing Link i 564, March 2000	n Lysosomal	Enzyme Targeting", The Journal of Clin	ical Invest	igation, Vo	i. 105, No. 5, Pages 563-			
	AY		Raas-Rothschild et al., "Molecular Basis of Variant Pseudo-Hurler Polydystrophy (Mucolipidosis IIIC)", The Journal of Clinical Investigation, Vol. 105, No. 5, pp. 673-681, March 2000							
	AZ			osamine: Lysosomal-Enzyme N-Acetylgi 271, No. 49, pp. 31446-31451, Decembe		e-1- Phosp	hotransferase", The			
Examiner		•			Date Cor	sidered				
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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF PATENT AND TRABET	COMMERCE	ATTY DOCKET NO. 203512US77		SERIAL NO. 10/023,889		
LIST OF	REFE	RENCES CITED BY APPI	ICANT &	APPLICANT William	M. CANI	FIELD		
			1 2002 13	FILING DATE DECEMBER 21, 2001		GROUP		
		TENT & TE	ADEMARIT	U.S. PATENT DOCUMENTS				
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	ВА	5,895,833	04/20/99	BERG				
	ВВ	5,879,937	03/09/99	RONCAROLO				
	вс	5,874,297	02/23/99	WU ET AL				
	BD	5,871,946	02/16/99	LUCAS ET AL				
	BE	5,861,491	01/19/99	NUIJENS ET AL				
	BF	5,858,755	01/12/99	LOWE				
	BG	5,858,744	01/12/00	BAUM ET AL				
	вн	5,858,351	01/12/99	PODSAKOFF ET AL				
	ВІ	5,854,207	12/29/98	LEE ET AL				
	BJ	5,851,782	12/22/98	HANNUN ET AL				
	вк	5,849,885	12/15/98	NUYENS ET AL				
	BL	5,840,578	11/24/98	DESNICK				
	вм	5,830,916	11/03/98	HANNUM ET AL				
	BN	5,830,850	11/03/98	GELB ET AL				
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		OTHER REF	ERENCES (including Author, Title, Date, Pertinen	t Pages, e	tc.)		
	BW			neric Structure of Bovine N-Acetylglucos of Biological Chemistry, Vol. 273, No. 3				
	вх			of a Clone of Chinese Hamster Ovary C lo. 4, pp. 1078-1082, April 1974	ells Deficie	nt in Plant	Leetin-Binding Sites"	
	ВҮ	Angy I. LIN et al, "Core fi cells", Glycobiology, Vol.		of high-mannose-type oligosaccharides i . 895-902, (1994)	n GlcNAc t	ransferase	I-deficient (Lecl) CHO	
	BZ	Alan D. ELBEIN, "Glycos December 1991, pp. 305		ors: inhibitors of N-linked oligosaccharid	e processi	ng", The F	ASEB Journal, Vol. 5,	
Examiner					Date Con	sidered		
*Examiner: In conformance	tial if re	eference is considered, what considered. Include copy	nether or not of this form	citation is in conformance with MPEP 6 with next communication to applicant.	09; Draw li	ne through	citation if not in	

Form PTO 1449 (Modified)				ATTY DOCKET NO. 203512US77			SERIAL NO. 10/023,889		
LIST OF	REFEF	RENCES CITED BY APPL		APPLICANT William	M. CAN	FIELD			
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		DOCUMENT TRA	apto	U.S. PATENT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT TRA	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
	CA	5,830,711		BARANY ET AL	1				
	СВ	5,807,943	09/15/98	LEE ET AL					
	CC	5,798,448	08/25/98	CARAS ET AL					
	CD	5,798,239	08/25/98	WILSON ET AL					
	CE	5,792,647	08/11/98	ROSEMAN ET AL					
	CF	5,773,236	06/30/98	DIWU ET AL	1				
	CG	5,759,775	06/02/98	CARAS ET AL					
	СН	5,750,172	05/12/98	MEADE ET AL	1				
	CI	5,741,957	04/21/98	DEBOER ET AL					
	CJ	5,736,360	04/07/98	GAULTON ET AL					
	СК	5,728,381	03/17/98	 	 				
ļ	CL	5,723,585	03/03/98		 				
<u> </u>	CM	5,721,367		KAY ET AL	 				
}	CN	5,719,031	02/17/98		 				
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	cw	Alan D. ELBEIN et al, "K	ifunensine, a	Potent Inhibitor of the Glycoprotein Pro 6, September 15, pp. 15599-15605 (199	cessing M		e I*", The Journal of		
	сх			nosidase inhibitor blocking conversion of 307, No. 23, February 1984	high mani	nose to cor	mplex oligosaccharides",		
	CY			igh-mannose-type α ₁ -proteinase inhibitor the mannosidase 1 inhibitor 1-deoxyman					
	CZ			1-Deoxymannojirimycin to Evaluate the f Cells", The Journal of Biological Chemis					
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		FEB 2 1		FILING DATE December 21, 2001		GROUP		
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EXAMINER INITIAL		DOCUMBER TRAI	ENDATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	DA	5,716,614		KATZ ET AL	 			
	DB	5,707,865	01/13/98	KOHN ET AL				
	DC	5,704,910	06/06/98	HUMES				
	DD	5,696,001	12/09/97	HABENSTEIN	1			
	DE	5,693,622	12/02/97	WOLFF ET AL				
	DF	5,691,181	11/25/97	LOWE	1			
	DG	5,686,240	11/11/97	SCHUCHMAN ET AL	 			
	DH	5,679,545	10/21/97	BAKER ET AL	 			
	DI	5,665,366		RAWLINGS ET AL	}	 	 	
	DJ	5,663,254	· · · · · · · · · · · · · · · · · · ·	LEE ET AL	 	 		
	DK	5,663,076		ROSTOKER ET AL	 	 		
	DL	5,658,567		CALHOUN ET AL	 			
		5,648,335		LEWIS ET AL	 	 		
		5,648,229		HABENSTEIN	 	 		
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LIST OF	REFEI	RENCES CITED BY APPL		APPLICANT William	M. CAN	FIELD	
		FEB 2 1	2002	FILING DATE December 21, 2001		GROUP	
		POCUMENT MADE	CMARKO	U.S. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	EA	5,639,939	06/17/97	McCUNE, III			
	EB	5,639,607	06/17/97	DESNICK ET AL			
	EC	5,633,261	05/27/97	DIME			
	ED	5,633,228	05/27/97	LEWIS ET AL	Ι		
	EE	5,627,171	05/06/97	PARK ET AL			
	EF	5,627,073	05/06/97	BAKER ET AL	Ι		
	EG	5,624,806	04/29/97	BAKER ET AL			
	EH	5,621,106	04/15/97	DIME			
	EI	5,612,206	03/18/97	VALERIO ET AL			
	EJ	5,585,247	12/17/96	HABENSTEIN			
	EK	5,583,160	12/10/96	IGARASHI ET AL			
	EL	5,578,479	11/26/96	LADERMAN ET AL			
ļ	EM	5,576,424	11/19/96	MAO ET AL	1	1	
	EN	5,571,893	11/05/96	BAKER ET AL			
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	FA	5,571,675	11/05/96	BAKER ET AL					
	FB	5,569,648	10/29/96	LEWIS ET AL					
	FC	5,565,362	10/15/96	ROSEN					
	FD	5,554,366	09/10/96	RAWLINGS ET AL					
	FE	5,545,402	08/13/96	WATKINSON					
	FF	5,534,615	07/09/96	BAKER ET AL					
	FG	5,512,471	04/30/96	SMITH					
	FH	5,501,957	03/26/96	DENNIS ET AL					
	FI	5,494,810	02/27/96	BARANY ET AL					
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	FK	5,475,095	12/12/95	MYEROWITZ					
	FL	5,466,809	11/14/95	DIME					
	FM	5,449,604	09/12/95	SCHELLENBERG ET AL					
	FN	5,443,986	08/22/95	HAUGHLAND ET AL					
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		OF THE STATE OF TH	ST.	U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENTS TRA	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE			
	GA	5,439,935	08/08/95	RAWLINGS ET AL						
	GB	5,433,946	07/18/95	ALLEN, JR. ET AL						
	GC	5,420,112	05/30/95	LEWIS ET AL	ļ					
	GD	5,405,751	04/11/95	RONCAROLO	ļ					
	GE	5,382,524	01/17/95	DESNICK ET AL	<u> </u>					
	GF	5,366,883	11/22/94	ASADA ET AL	<u> </u>					
	GG	5,362,628	11/08/94	HAUGLAND	<u> </u>					
	GH	5,344,352	09/06/94	HORNE ET AL	<u> </u>					
	GI	5,316,906	05/31/94	HAUGLAND ET AL						
	GJ	5,310,646	05/10/94	WHITLEY						
	GK	5,296,365	03/22/94	OVERBEEKE ET EA						
	GL	5,281,394	01/25/94	HOLUB						
	GM	5,260,447	11/09/93	NAKAJIMA ET AL						
	GN	5,242,805	09/07/93	NALEWAY ET AL						
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	НА	5,217,865	01/08/93	MYEROWITZ				
	нв	5,208,148	05/04/93	HAUGLAND ET AL	1			
	нс	5,205,917		KLOCK, JR.	<u> </u>			
	HD	5,179,023	01/12/93	CALHOUN ET AL	1			
	HE	5,166,320	11/24/92	WU ET AL	1			
	HF	5,143,841	09/01/92	HIRABAYSHI ET AL	<u> </u>			
	HG	5,126,247	06/30/92	PALMER ET AL				
	НН	5,089,392	02/18/92	MILLER ET AL				
	HI	5,802,778	01/21/92	OVERBEEKE ET AL	<u> </u>			
	HJ	5,077,200	12/31/91	HABENSTEIN	<u> </u>			
	нк	5,075,231	12/24/91	MOREAU ET AL	<u> </u>	L		
	HL	5,061,025	10/29/91	MATTES ET AL	<u> </u>			
	НМ	5,060,428	10/29/91	ARTHUR, JR. ET AL				
	HN	5,015,470	05/14/91	GIBSON				
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EXAMINER INITIAL		DOCUMENT PADE	DATE	NAME	CLASS	SUB CLASS		LING DATE PPROPRIATE		
	IA	5,001,072	03/19/91	OLSON	L					
	IB	4,997,760	03/05/91	HIRABAYASHI ET AL	<u> </u>					
	IC	4,987,223	01/22/91	CHOAY ET AL						
	ID	4,986,274	01/22/91	STEPHENS						
	ΙE	4,981,801	01/01/91	SUZUKI ET AL	L					
	lF	4,975,441	12/04/90	GIBSON	<u> </u>					
	IG	4,866,042	09/12/89	NEUWELT						
	IH	4,851,390	07/25/89	MORISHIGE						
	{}	4,798,169	01/17/89	ROSEN ET AL						
	IJ	4,749,570	06/07/88	POZNANSKY						
	ik	4,659,817	04/21/87	GALLOP ET AL						
	IL	4,639,420	01/27/87	SCHAFFNER	 					
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EXAMINER INITIAL		DOCUMENTRADE!	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	JA	4,496,722	01/29/85	GALLOP ET AL	 	ļ		
	JB	4,492,761	01/08/85	DURACK	 			
	JC	4,474,770	10/02/84	LORMEAU ET AL	†			
	JD	4,452,794	06/05/84	KORT ET AL	1			
	JE	4,433,946	02/28/84	CHRISTIANSON ET AL	1			
	JF	4,431,737	02/14/84	OLIVIERI ET AL	1			
	JG	4,401,758	08/30/83	LORMEAU ET AL	 	 		
	JH	4,401,662	08/30/83		 			
 	JI	4,332,894	 	WHISTLER	 		·····	
	JJ	4,328,215	 	BUEDING	 	 		
	JK	4,195,126	12/23/80	 	 	 	 	
 	JL	4,156,013		BRUINVELS ET AL	+	 	 	
 	JM	4,140,107		LANCEE ET AL	+			
 	JN	3,972,777		YAMADA ET AL	+	 		
 		10,312,11.	·	**************************************	ــــــــــــــــــــــــــــــــــــــ	<u> </u>	L	
		1	FO!	REIGN PATENT DOCUMENTS				
		DOCUMENT NUMBER	DATE	COUNTRY		YES	TRANSLATION S NO	
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 	JP					<u> </u>		
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	,	OTHER REF	ERENCES (Including Author, Title, Date, Pertinen	ıt Pages, e	tc.)		
	JW							
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Examiner					Date Con	sidered		
*Examiner: Ini	tial if re	eference is considered, what considered, the considered	nether or not	citation is in conformance with MPEP 60	09; Draw lii	ne through	citation if not in	

Form PTO 1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY DOCKET NO. 203512US77						SERIAL I	NO. 10/023,889	
LIST OF	REFE	RENCES CITED BY APP	lc A yt	APPLICANT William	M. CANI	FIELD		
		FEB 2 1 3	2002	FILING DATE December 21, 2001		GROUP		
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	AA	3,966,555	06/29/76	ARNAUD ET AL	1			
	AB	3,957,578	05/18/76	NARITA ET AL				
	AC	RE35,770	04/14/98	LORMEAU ET AL				
	AD	5,773,278	06/30/98	SCHUCHMAN ET AL				
l	AE	5,798,366	08/25/98	PLATT ET AL				
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	AJ	5,929,304	07/27/99	RADIN ET AL	1			
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	AL	5,356,804	10/18/94	DESNICK ET AL				
	AM	5,401,650	03/28/95	DESNICK ET AL				
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		DOCUMENT NUMBER	DATE	ATE COUNTRY		TRANSLATION YES NO		
	AO							
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	AZ							
Examiner					Date Cons	sidered		
Examiner: Init	al if re	ference is considered, who	ether or not of	citation is in conformance with MPEP 60 with next communication to applicant.	9; Draw lin	e through o	citation if not in	